

Programa de mantenimiento de la termoelectrica

Version 2021-06-15



Listado de mantenimientos para los equipos de la termoelectrica

Checks		Minor	Intermediate	Major
Turbine	Turbine Borescope	X	X	
	Valve & Bearings Open & Inspect		X	X
	Oil Treatment or Replacement (Subject to oil analysis)		X	X
	Turbine Open & Inspect			X
Generator	Visual Inspection (borescope)	X	X	
	Electrical Tests	X	X	X
	Robot Inspection (visual and bump tests)		X	
	Excitation visual inspection, cleaning & electrical tests	X	X	X
	Generator Open & Inspect			X
Boiler Pressure Parts	Visual Inspection	X	X	X
	NDT on findings	X	X	X
	Tubes thickness & Welding NDT		X	X
Boiler Safety Valves	Online Trevi Test	X	X	X
	Safety Valves replacement (with certified & calibrated valves)		X	X
GAH & GGH	Internal visual Inspection	X	X	X
	Sealing measurement & adjustment	X	X	X
	Maintenance on the drive assembly	X	X	X
Boiler FANS	Impeller Inspection	X	X	X
	Sleeve Bearing Inspection (Visual + NDT + Wear Measurement)		X	X
	Motor Inspection (Electrical Tests)		X	X
SCR	Catalyst Sampling	X		
	Catalyst Layer to add or replace			X
Baghouse	Bags inspection, Pulsation System			
	Pneumatic conveying system (piping rotation/replacement & valves replacement)		X	
	Bags Filter Replacement (Depending of the Baghouse Pressure Drop)			X
FGD	Internal Inspection	X	X	X
GCB & GIS	Inspection on Cranks lever assembly, heaters, Sf6 pressure, mechanisms (earthing, disconnecting & breakers), seals	X	X	
	Electrical Tests (resistance of contacts, PT & CT tests, Surge Arrestors)		X	
GSU / UAT / CST	Visual Inspection, Corrosion Treatment if necessary	X	X	X
	Cleaning of surface, HV Bushing, Neutral Bushing, Radiator etc)	X	X	X
	Electrical Tests		X	X
	Oil Treatment OR replacement (subject ot oil analysis)		X	X

Maintenance Calendar

The table below describes the power plant long term maintenance Calendar for the mains equipment.

Calendar Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Operation's Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16
Duration			21 days	21 days	12 days	12 days	45 days	45 days	12 days	12 days	21 days	21 days	12 days	12 days	45 days	45 days
Turbine Rotor	U1+U2 Minor Insp		U1 Minor_Insp.	U2 Minor_Insp.	U1 Minor_Insp.	U2 Minor_insp..	U1 Major Insp.	U2 Major Insp.	U1 Minor_insp..	U2 Minor_insp..	U1 Minor_Insp.	U2 Minor_insp..	U1 Minor_Insp.	U2 Minor_insp..	U1 Major Insp.	U2 Major Insp.
Turbine Bearing	U1+U2 Major Insp.		U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.
Turbine Valves			U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.			U1 Major Insp.	U2 Major Insp.
Generator	U1 + U2 Minor_insp		U1 Medium insp.	U2 Medium insp.	U1 Minor insp.	U2 Minor insp.	U1 Major insp.	U2 Major insp.	U1 Minor insp.	U2 Minor insp.	U1 Medium insp.	U2 Medium insp.	U1 Minor insp.	U2 Minor insp.	U1 Major insp.	U2 Major insp.
Gen. Excitation			U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.
Boiler Press. Parts	U1 + U2 Medium insp		U1 Medium insp.	U2 Medium insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Major insp	U2 Major insp	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Major insp	U2 Major insp
Control Valves			U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations	U1 Calibrations	U2 Calibrations
Safety Valves			U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration	U1 Calibration	U2 Calibration
Gas Air Heater	U1+ U2 Inspection		U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection
Boiler FANS	U1+U2 medium Insp.		U1 Medium insp.	U2 Medium insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.
SCR	Catalyst Sampling		U1 Catalyst 2nd layer inst.	U2 Catalyst 2nd layer inst.	U1 Sampling	U2 Sampling	U1 Catalyst Replacement	U2 Catalyst Replacement	U1 Sampling	U2 Sampling	U1 Catalyst Replacement	U2 Catalyst Replacement	U1 Sampling	U2 Sampling	U1 Catalyst Replacement	U2 Catalyst Replacement
Baghouse	U1+ U2 Minor insp.		U1 Major Maint.	U2 Major Maint.	U1 Medium insp.	U2 Medium insp.	U1 Medium insp.	U2 Medium insp.	U1 Medium insp.	U2 Medium insp.	U1 Medium insp.	U2 Medium insp.	U1 Medium insp.	U2 Medium insp.	U1 Medium insp.	U2 Medium insp.
FGD	U1 coating repair		U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.	U1 insp.	U2 insp.
GGH	U1 Minor_insp		U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection	U1 Inspection	U2 Inspection
GCB & GIS			U1 Medium insp.	U2 Medium insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.
GSU / UAT / CST	U1 + U2 Medium insp.		U1 Medium insp.	U2 Medium insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.	U1 Minor Insp.	U2 Minor Insp.	U1 Medium insp.	U2 Medium Insp.